

# 2635A-PRINT 120 2635A-PRINT 230

## Serial 80 Column Dot-Matrix Printers

### Instruction Sheet

### Introduction

The 2635A-PRINT 120 and 2635A-PRINT 230 Serial Printers (hereafter referred to as “the Printer”) are 80-Column Dot-Matrix Serial Printers that can be connected directly to the Fluke Hydra Series (2635A, 2625A, and 2620A models hereafter referred to as “the Hydra”) to provide printed hard-copy output without the need for a computer or software. The Printer is shown in Figure 1.

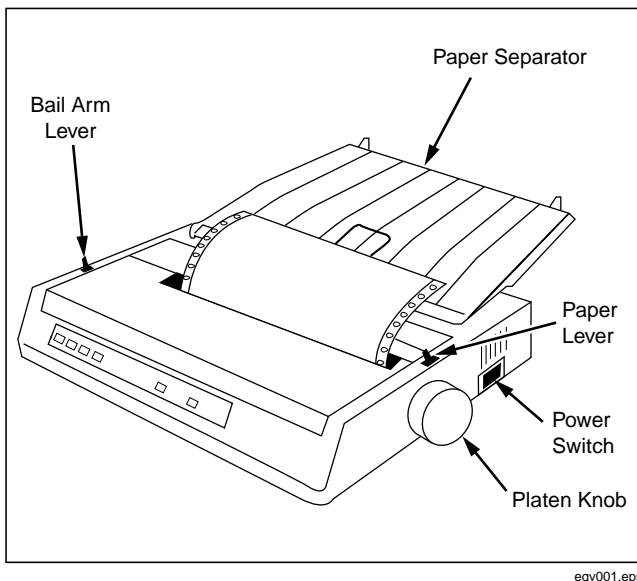


Figure 1. 2635A-PRINT Printer

### Shipping Contents

The Printer comes with the following items:

- Instructions for Printer setup and use (this sheet)
- Quick Start Guide
- Platen knob
- Ribbon cartridge
- Paper separator
- CD-ROM with User’s Guide and print drivers
- Fluke RS42 serial printer cable

### Installation

#### ⚠ ⚠ Warning

To avoid possible electric shock or personal injury:

- **Verify that the line voltage marked on the back of the printer matches the local mains supply before connection.**
- **Check that the voltage listed on the rating plate, located on the back of the printer, matches the local mains supply voltage before applying power.**

Some Printer parts have been removed for shipping. Reassemble its detached parts, as follows (see Figure 1 and the Quick Setup Guide for details):

1. Install the platen knob on the shaft on the right-side of the Printer, lining up the slot in the knob with the pin on the shaft.
2. Remove shipping tape from the Printer, and open the top cover.
3. The print head is held to one side by a plastic shipping retainer. Remove the retainer. Save the retainer in case the Printer ever needs to be shipped.
4. Center the print head by gently pushing it to the center of the platen area.
5. Attach the ribbon cartridge to the print head by setting the front-end in place and carefully snapping the ribbon down between the print head and platen.
6. Attach the paper separator by slipping the hooks on its front into the two slots on the top of the Printer.

## Loading Printer Paper

### ⚠ ⚠ Warning

**If the printer has been recently used, the print head may still be hot.**

To allow continuous printing of Hydra scan data, Continuous Forms-type paper is recommended.

Load continuous forms paper as follows (see Figure 1):

1. Set the paper lever (located on the right-side) to its forward position to select "Continuous Forms".
2. Move the bail arm lever (located on the left-side) forward to release bail arm pressure from the platen.
3. With the top-cover open, thread the continuous forms paper either in from the back, under the paper separator and down behind the platen, or up through the slot on the bottom of the Printer.
4. Raise the paper in front of the platen to a level above the Printer top.
5. If the paper has sprocket holes on the sides, adjust the spacing of the sprockets on the platen to fit the paper properly. For more details, see the User's Guide on the included CD-ROM.
6. With the paper in the correct position on the platen and sprockets, move the bail arm lever back to press the bail arm against the paper.
7. Close the top cover, making sure to thread the paper up through the slot.
8. Using the platen knob, adjust the paper to the right starting position with the top edge of the paper above the bail arm.
9. Press the SELECT button on the front of the Printer to put it on-line. The light next to the SELECT button indicates the printer is online.

## Connecting the Printer

The Printer connects directly to the Hydra's RS-232C connector on the Hydra rear panel, using the supplied RS42 serial printer cable.

To simplify system setup, Printer default settings correspond to Hydra series instruments. No adjustments to these settings are necessary.

To set up the Printer:

1. Connect the larger 25-pin connector end of the RS42 serial printer cable to the serial interface connector on the Printer.
2. Connect the 9-pin connector end of the RS42 serial cable to the RS-232C serial connector on the rear panel of the Hydra.
3. Connect power cord to the rear of the Printer, and plug it into an appropriate power outlet.
4. Turn the Printer power on.

To set up the Hydra:

1. Check that the Hydra is set to 9600 Baud and No Parity (refer to the proper Hydra Users Manual for instructions). Use the SHIFT and LIST [COMM] buttons on the Hydra front panel to check and set if needed.
2. Set the Hydra for Autoprint mode. See the instructions below for the appropriate model:

- **2635A Data Bucket**

1. Press the SHIFT and FILES [MODE] buttons.
2. Select PRINT (or BOTH) Destination using up or down arrow keys.
3. Press ENTER.
4. Select ALL for the Mode.
5. Press the ENTER key again.

- **2625A Data Logger**

1. Press the SHIFT and PRINT [MODE] buttons.
2. Select PRINT (or BOTH) Destination using up or down arrow keys.
3. Press ENTER.
4. Select ALL for the Mode.
5. Press the ENTER key again.
6. Check that the PRN annunciator on the display is on.

7. Press the PRINT button on the Hydra if necessary to turn PRN on.

• **2620A Data Acquisition Unit**

1. Check that the PRN annunciator on the display is on.
2. Press the PRINT button on the Hydra if necessary to turn PRN on.

**Operation**

Before starting Scan on the Hydra, ensure that the Printer is set up and paper is loaded. Also check that the Hydra is set to Autoprint mode as described above. Press the SELECT button on the front of the Printer if necessary to put it on-line.

Press the SCAN button on the Hydra to start scanning. The Printer should print each scan as it occurs. Press SCAN again to stop scanning.

*Note*

*The Printer has been set to operate in its default factory setting as an accessory to the Hydra. Please refer to the manufacturer's instructions and supplied software for operating the Printer in other applications. Refer to the included CD-ROM for other applications.*

**Specifications**

**General**

<b>Print Method</b>	Impact dot matrix	
<b>Print head</b>	9 pins, 0.0118 in (0.30 mm) diameter, with thermal protection	
<b>Emulations (co-resident)</b>	IBM 2480 Epson ESC/P2 Okidata MICROLINE Standard	
<b>Print Speed, characters per second (cps)</b>	Super Speed	375 cps
	Draft (SSD)	(12 cpi only)
	High Speed Draft (HSD)	333 cps
	Utility (UTL)	250 cps
	Near Letter Quality (NLQ)	62.5 cps
<b>Buffer size</b>	128 Kb	

**Paper**

Type	Feed	Weight	Width
Cut Sheets	Top only	16 to 21 lb. US Bond (60 to 81 g/m <sup>2</sup> )	3 in to 9.5 in (76 to 241 mm)
Continuous, Single Part	Rear/ Bottom	14 to 20 lb. US Bond (53 to 75 g/m <sup>2</sup> )	3 in to 9.9 in (76 to 251 mm)
Continuous, Multipart • 4 sheets (orig.+3), Carbonless • Up to 0.11" (0.28 mm)	Rear/ Bottom	14 to 20 lb. US Bond (53 to 75 g/m <sup>2</sup> )	3 in to 9.9 in (76 to 251 mm)

**Reliability**

<b>Ribbon Life</b>	3 million characters (avg.)
<b>Print head Life</b>	200 million characters average in 10 cpi utility mode
<b>Mean Time Between Failures (MTBF)</b>	20,000 hours at 25 % duty cycle and 35 % page density

**Physical**

<b>Height</b>	3.15 in (80 mm)
<b>Width</b>	14.65 in (372 mm)
<b>Depth</b>	10.83 in (275 mm)
<b>Weight</b>	9.9 lb (4.5 Kg)

**Electrical**

<b>Voltage</b>	120 V, +6 %, -15 % (2635A-PRINT 120 model)
	230 V, +15 %, -14 % (2635A-PRINT 230 model)
<b>Frequency</b>	50 or 60 Hz, ±2 %

## Environmental

### Temperature

Operating 41 to 104 °F (5 to 40 °C)  
Storage -40 to 158 °F (-40 to +70 °C)

### Humidity

Operating 20 to 80 % RH  
Storage 5 to 95 % RH

### Noise level

Normal: Less than 54 dBA  
Quiet Mode: Less than 51 dBA

## Interfaces

**Serial Models** RS-232C Serial  
USB 1.1

## Contacting Fluke

To locate an authorized service center, visit us on the World Wide Web at [www.fluke.com](http://www.fluke.com) or call Fluke using any of the following numbers:

USA: 1-888-99-FLUKE (1-888-993-5853)  
Canada: 1-800-36-FLUKE (1-800-363-5853)  
Europe: +31 402-675-200  
Japan: +81-3-3434-0181  
Singapore: +65-738-5655  
Anywhere in the world: +1-425-446-5500

### LIMITED WARRANTY AND LIMITATION OF LIABILITY

This Fluke product will be free from defects in material and workmanship for 90 days from the date of purchase. This warranty does not cover fuses, disposable batteries, or damage from accident, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Fluke's behalf. To obtain service during the warranty period, contact your nearest Fluke authorized service center to obtain return authorization information, then send the product to that Service Center with a description of the problem.

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